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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/822,651	03/30/2001	Scott J. Tuman	54407US006 9447	
32692 3M INNOVAT	7590 · 12/12/2007 CIVE PROPERTIES COMP	EXAMINER		
PO BOX 3342	7	TSOY, I	TSOY, ELENA	
ST. PAUL, MN 55133-3427			ART UNIT	PAPER NUMBER
			1792	
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			NOTIFICATION DATE	DELIVERY MODE
			12/12/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

LegalUSDocketing@mmm.com LegalDocketing@mmm.com

	Application No.	Applicant(s)			
	09/822,651	TUMAN ET AL.			
Office Action Summary	Examiner	Art Unit			
	Elena Tsoy	1792			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 15 No	<u>vember 2007</u> .				
2a) This action is <b>FINAL</b> . 2b) ⊠ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>71-79,81-83,85-90 and 92-115</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>71-79,81-83,85-90 and 92-115</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
		<del>-</del>			
Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pa	atent Application			

#### Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 30, 2007 has been entered.

# Response to Amendment

Amendment filed on November 15, 2007 has been entered. New claims 114-115 have been added. Claims 71-79, 81-83, 85-90, and 92-115 are pending in the application.

### Claim Objections

1. Claims 71, 83 and 94 are objected to because of the following informalities: "wherein the polymer forming the discrete patches of polymer" should be changed to "wherein the polymer forming the discrete patches of polymer" because a second "polymer" is redundant.

Appropriate correction is required.

### **Double Patenting**

2. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. 'A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re* 

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Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR ' 3.73(b).

3. Claims 71-79, 81-83, 85-90, 92-115 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 10-21, 285 of U.S. Patent No. US 6,503,855. Although the conflicting claims are not identical, they are not patentably distinct from each other because current claims are broader in scope than claims of '855.

## Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

### Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 6. Rejection of claims 85, 107 under 35 U.S.C. 103(a) as being unpatentable over Wessels et al in view of Murasaki (US 5,643,651) has been withdrawn due to amendment.
- 7. Claims 109, 111, and 114-115 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wessels et al (US 5,669,120) for the reasons discussed in the Final Office action of 8/02/2007.

Wessels et al are applied here for the same reasons as set forth in paragraph 4 of the Office Action mailed on 1/18/2007. The Examiner maintains her position stated in the Response to Applicants' arguments of the Final Office action of 8/02/2007. In the absence of definition, the term "substrate" has been given broadest reasonable interpretation in light of the supporting disclosure, e.g. any film, including a composite film, having a first major side and a second major side, to which first major side a plurality of polymeric regions are fused. Therefore, in contrast to Applicants argument, in Wessels et el, a polymer film 4a with embedded S can be broadly interpreted as substrate as claimed. Therefore, the polymer regions of Wessels et el. are not actually formed by forcing molten polymer through the substrate but formed by extruding a film 4a of a molten polymer (claimed substrate), joining the polymer film 4a with a fabric S, then forcing the upper portion of molten polymer 4a through the fabric S into cavities (See Fig. 5). As a result, the polymer of the plurality of polymeric regions in Wessels et al does not extend through the substrate 4a with embedded fabric S as shown in Figs. 4B and 4F.

8. Claims 71-79, 81-83, 86-90, 92-106, and 108-115 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wessels et al in view of Allen et al.

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Wessels et al are applied here for the same reasons as set forth in previous Office Actions. Wessels et al do not teach that a second side of the substrate is free of the polymer making up the plurality of discrete polymeric regions.

Allen et al teach that *conventional* hook and loop components are typically formed by making a fabric with a number of woven loops extending outwardly from a backing; the loops may be provided by weaving a base fabric containing supplementary threads to form the loops, or by knitting the loops into a fabric; the male components of such fastening devices are typically formed by subsequently cutting the loops (See column 1, line 64 to column 2, line 6). These conventional processes generally produce costly hook and loop fastening materials (See column 2, lines 7-14). However, a *composite* female component of the fastening device for the use in diapers (See column 4, lines 6-7) comprising a non-woven fibrous web joined to an elastic backing 34 provides a low cost loop fastening material instead of conventional knit or woven fabric (See Figs. 1, 4; column 1, lines 68; column 2, lines 1-24; column 3, lines 6-12; column 5, lines 46-57), as was discussed in previous Office Action. Allen et al further teach that the elastomeric backing 34 may take on a number of different configurations. For example, the backing 34 may comprise a thin film, a laminate of two or more films, a web of elastomeric adhesive that has been extruded in the form of a thin film, or any combination thereof (See column 9, line 64 to column 10, line 11). It is the Examiner's position that different polymers may be used for making two films in the laminate of Allen et al because Allen et al does not limit their teaching to particular films; and because Allen et al teach that the elastomeric backing 34 may comprise two films of different polymers: a film of elastomeric adhesive (See column 15, lines 51-52) and a non-adhesive elastomeric film (See column 16, lines 34-35).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used a loop fastening material of Allen et al comprising non-woven fibrous web joined to an *elastic* backing comprised of a laminate of <u>two</u> films of *different* polymers for making a fastener in Wessels et al so that <u>only</u> upper polymer film Wessels et al (which is joined to the fibrous web) is used for making hooks, instead of conventional knit or woven fabric with the expectation of providing the desired low cost, as taught by Allen et al.

The Examiner takes official notice that it is within the level of ordinary engineering skill to add another film layer of a polymer that is different from a polymer layer 4. For example, manufacturing method of Wessels et al, e.g. as is shown in Fig. 5, can be carried out by substituting a knit substrate with a *non-woven fibrous web* and positioning *co-extruder*, another *extruder* or a roll of a *preformed* polymer film either before the roller 13 or after the roller 13 with two additional pair of calendaring rollers so that another polymer film layer would be laminated with the extruded polymer layer 4, *prior to* cooling by the air blower 14.

9. Claims 71-79, 81-83, 86-90, 92-106, and 108-115 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wessels et al in view of Allen et al and Provost et al (US 5606781).

Wessels et al in view of Allen et al are applied here for the same reasons as above.

Provost et al are applied here as <u>evidence</u> to show that it is well known in the art that hook-like coupling elements can be formed by clipping side portions of synthetic fiber monofilament loops which are woven into a substrate cloth as subsidiary warps in the weaving process to form upstanding loops on the surface of the substrate cloth, or alternatively, the <u>hooks</u> can be molded integrally with a base 406 using a synthetic resin material, or can be *co-extruded* with the base

using a cross head die; or the hook elements on a thin base may be laminated to a different sheet form substrate.

10. Claims 85, 107 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wessels et al in view of Allen et al/Wessels et al in view of Allen et al and Provost et al/, further in view of Murasaki (US 5,643,651) for the reasons of record set forth in paragraph 9 of the Office Action mailed on 4/13/2006.

## Response to Arguments

- 9. Applicants' arguments filed October 30, 2007 have been fully considered but they are not persuasive.
- A. "A prima facie case of obviousness at least because it does not offer a reasonable likelihood of success".

Applicants argue that the asserted obviousness rejection over Wessels et al in view of Allen et al does not establish a prima facie case of obviousness at least because it does not offer a reasonable likelihood of success. As discussed above, all of the methods of manufacturing the articles of Wessels et al. require that at least a portion of a molten polymer be forced through a porous knit or woven fabric substrate S. The Examiner is now asserting that one of ordinary skill would substitute a polymer film for that porous "knit or woven fabric and somehow force a molten polymer therethrough.

The Examiner respectfully disagrees with this argument for the reasons discussed above. The molten resin would be forced not through the polymer layer but through the a non-woven fibrous web.

B. "Each Discrete Polymeric Region Of The Plurality Of Discrete Polymeric Regions
Comprises A Discrete Patch Having A Perimeter That Is Entirely Bordered By "he First Major
Side of The Substrate"

Although the assertion is made by the Office Action that the difference between "a discrete patch having a perimeter that is entirely bordered by the first major side of the substrate" and the continuous stripes of polymer taught by Wessels et al is a mere matter of design choice, no support or reasoning is provided for that conclusory assertion. Applicants respectfully submit, however, that a change in the patterns disclosed by Wessels et al. would be, e.g., a change in the spacing or width of the continuous stripes - not a change to discrete patches as recited in the rejected claims.

The Examiner respectfully disagrees with this argument. Wessels et al teach "Further, since the pile core sheet is manufactured by weaving or knitting, it is possible to **change the design** of the pile core sheet in arrangement and orientation of piles and to determine the size, shape or **arrangement** of **hook** elements optionally. It is accordingly possible to cope instantly with **various requirements** for the surface fastener in which hook and loop elements coexist."

(See column 10, lines 53-60). Therefore, in contrast to Applicants argument, a change in the patterns disclosed by Wessels et al would be <u>NOT only</u> a change in the spacing or width of the continuous stripes - but a change in **arrangement** of **hook** elements according to **various requirements** for the surface fastener.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elena Tsoy whose telephone number is 571-272-1429. The examiner can normally be reached on Monday-Thursday, 9:00AM - 5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on 571-272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Elena Tsoy, Ph.D. Primary Examiner Art Unit 1792

November 30, 2007

ELENA TSOY
PRIMARY EXAMINER